

Amendments to the Claims

1. (Canceled)
2. (Currently Amended) A self-crosslinkable copolymer consisting essentially of:
caprolactone units; and
fumarate units,
wherein the copolymer is prepared by reacting (i) poly(caprolactone) and (ii)
fumaric acid or a salt thereof, and
wherein the poly(caprolactone) has a number average molecular weight in the
range of 500-10000 daltons, and
wherein the copolymer has a number average molecular weight in the range of
3000 to 4000, and a polydispersity index in the range of 2 to 4, a melting point in
the range of 50°C to 70°C, and a hardening point in the range of 30°C to 40°C,
and
wherein the copolymer is injectable at temperatures above the melting point.
3. (Canceled)
4. (Canceled)
5. (Canceled)
6. (Canceled)
7. (Canceled)
8. (Canceled)
9. (Previously Presented) The copolymer of claim 2 wherein the copolymer is
prepared by reacting poly(ϵ -caprolactone) and fumaryl chloride.

10. (Canceled).
11. (Canceled).
12. (Canceled).
13. (Canceled).
14. (Withdrawn) A crosslinkable, biodegradable material comprising:
a copolymer including caprolactone units and fumarate units; and
a free radical initiator.
15. (Withdrawn) The material of claim 14 wherein:
wherein the material is an injectable bone substitute.
16. (Withdrawn) The material of claim 11 wherein:
wherein the material is an injectable bone cement.
17. (Withdrawn) The material of claim 14 further comprising:
a porogen.
18. (Withdrawn) The material of claim 14 further comprising:
an accelerator.
19. (Withdrawn) The material of claim 14 wherein:
the material does not include a crosslinking agent.
20. (Withdrawn) The material of claim 14 further comprising:
particulate or fiber reinforcement materials.
21. (Withdrawn) The material of claim 14 wherein:
the reinforcement materials comprise hydroxyapatite.

22. (Withdrawn) The material of claim 14 wherein:

the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

23. (Withdrawn) A scaffold for tissue regeneration, the scaffold comprising:

a biodegradable matrix comprising a copolymer including caprolactone units and fumarate units.

24. (Withdrawn) The scaffold of claim 23 wherein:

the copolymer is prepared by reacting (i) poly(ϵ -caprolactone) and (ii) fumaric acid or a salt thereof.

25. (Withdrawn) The scaffold of claim 23 wherein:

the matrix includes particulate or fiber reinforcement materials.

26. (Withdrawn) The scaffold of claim 25 wherein:

the reinforcement materials comprise hydroxyapatite.

27. (Withdrawn) The scaffold of claim 23 wherein:

the scaffold is porous.